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1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow \infty$. It is shown that the solutions of the system (1) are bounded and tend to zero as $t \rightarrow \infty$ if the matrix A is stable. The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow \infty$ if the matrix A is not stable. It is shown that the solutions of the system (1) are bounded and tend to zero as $t \rightarrow \infty$ if the matrix A is not stable and the matrix B is positive definite.

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This micrograph shows a longitudinal section of a plant stem. The vascular bundles are arranged in a ring, with xylem vessels on the left and phloem on the right. The central pith is visible as a lighter, less structured area.

